Docket No.

249210US0

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Tatsuya YASUNAGA, et al.

SERIAL NO: New Application

GAU:

FILED:

Herewith

EXAMINER:

FOR:

RUBBER BONDED BRASS COMPOSITE MATERIAL

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- □ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618 C. Irvin McClelland

Registration Number 21,124

Customer Number

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

DOCKET NO.: 249210US0 Page <u>1</u> of <u>1</u>

IN RE APPLICATION OF: Tatsuya YASUNAGA, et al.

SERIAL NO.: New Application

FILED: Herewith

FOR: RUBBER BONDED BRASS COMPOSITE MATERIAL

STATEMENT OF RELEVANCY

Reference AO (JP 2001-131885) on Form PTO-1449:

discussed in the specification

PROBLEM TO BE SOLVED: To produce a steel wire having excellent wet heat adhesiveness, not to mention initial adhesiveness.

SOLUTION: This steel wire subjected to copper alloy plating on the circumferential face comprises >=50% metal copper in copper components contained in a surface layer zone from the surface of plating to 3 nm depth inward in the radial direction.

Reference AP (2001-234371) on Form PTO-1449:

discussed in the specification

PROBLEM TO BE SOLVED: To improve the initial adhesive properties and wet heat adhesive properties between rubber and a steel cord.

SOLUTION: A steel cord with copper alloy plating is subjected to cleaning treatment with an acidic or alkaline aqueous solution such as an aqueous solution of phosphoric acid and an aqueous solution of sodium hydroxide to reduce the residual amount of a lubricant containing a phosphoric compound causing the check of adhesion and used in a wire drawing stage.

Reference AQ (52-102388) on Form PTO-1449:

PURPOSE: A process for adhesion of brass-coated steel wires to rubber with good initial adhesion and smaller dispersion of adhesiveness without decrease of adhesivess, characterized by heat-treating the brass-coated steel wires under specific conditions. SOLUTION: Brass-coated steel wires are come into contact with rubber after the wires are heat treated.

Form PTO 1449	U.S. DEPARTMENT OF COMMERCE			ATTY DOCKET NO.		SERIAL NO.			
(Modified)		PATENT AND TRA	DEMARK OFFICE	249210US0		New Application			
				APPLICANT					
LIST OF REFERENCES CITED BY APPLICANT				Tatsuya YASUNAGA, et al.					
				FILING DATE		GROUP			
				Herewith				_	
U.S. PATENT DOCUMENTS									
EXAMINER		DOCUMENT	DATE	NAME	CLASS	SUB FILING DATE			
INITIAL		NUMBER	DAIL	- IVAIVIE	CEAGG	CLASS	CLASS IF APPROPRIATE		
	AA								
_	AB								
	AC								
	AD		<u></u>		<u> </u>				
	AE								
	AF							·	
	AG								
	AH			•	ļ <u>.</u>				
	AI								
	AJ	-							
	AK								
	AL			·					
	AM								
	AN								
		Name	FC	REIGN PATENT DOCUMENTS			<u> </u>		
	·	DOCUMENT	DATE	COUNTRY		TRANSLATION			
		NUMBER	,5/112			YES		NO	
	AO	2001-131885	05/15/01	Japan		<u> </u>		×	
	AP	2001-234371	08/31/01	Japan				×	
	AQ	52-102388	08/27/77	Japan		ļ		×	
	AR								
,	AS								
	AT	•							
	'AU								
	AV								
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)									
	AW	j .							
	АХ								
	AY								
	AZ				☐ Add	Additional References sheet(s) attached			
Examiner		7			Date Considered				
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.									